# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 12/31/2019 09:29 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/08/2019 01:46 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125146 | 0 | 2.50 | 125301 | 2.45 |
| Blue | F | SSC | 125000 | 123952 | -1 | 1.82 | 124780 | 1.76 |
| Blue | E | FITC | 16433 | 16037 | -3 | 2.71 | 350 | 19.39 |
| Blue | D | PE | 27595 | 27222 | -2 | 1.93 | 597 | 14.31 |
| Blue | B | PerCP-Cy5-5 | 43183 | 42792 | -1 | 3.52 | 1148 | 19.84 |
| Blue | A | PE-Cy7 | 31943 | 32103 | 0 | 5.97 | 613 | 38.94 |
| Red | C | APC | 42819 | 42263 | -2 | 2.45 | 1497 | 11.85 |
| Red | A | APC-Cy7 | 31261 | 30748 | -2 | 2.36 | 815 | 11.76 |
| Violet | B | V450 | 6527 | 6238 | -5 | 4.40 | 349 | 13.52 |
| Violet | A | V500 | 24533 | 23352 | -5 | 4.26 | 545 | 10.57 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17971 | 13.00 | 614 | 14 | N/A | N/A | Pass |
| Blue | F | SSC | 56483 | 1.26 | 554 | 6 | N/A | N/A | Pass |
| Blue | E | FITC | 63 | 62.06 | 540 | 1 | 0.0214 | 107 | Pass |
| Blue | D | PE | 124 | 49.42 | 537 | 3 | 0.1802 | 304 | Pass |
| Blue | B | PerCP-Cy5-5 | 211 | 48.73 | 650 | 8 | 0.0096 | 57 | Pass |
| Blue | A | PE-Cy7 | 115 | 96.94 | 697 | 8 | 0.0121 | 19 | Pass |
| Red | C | APC | 357 | 24.79 | 579 | -4 | 0.0259 | 171 | Pass |
| Red | A | APC-Cy7 | 180 | 28.47 | 559 | -4 | 0.0058 | 1110 | Pass |
| Violet | B | V450 | 53 | 60.40 | 447 | -8 | 0.0465 | 1900 | Pass |
| Violet | A | V500 | 81 | 32.54 | 458 | -9 | 0.0223 | 551 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.48 | -32.02 | 1.00 |
| Blue | 20.35 | 16.27 - 24.41 | 1.27 | 0.99 - 1.49 | 0.00 | 0.00 | 1.48 |
| Red | 17.09 | 13.60 - 20.40 | N/A | N/A | 29.56 | 30.08 | 1.20 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9652

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments